

Supplementary Materials: Kinetics and Molecular Docking Studies of 6-Formyl Umbelliferone Isolated from *Angelica decursiva* as an Inhibitor of Cholinesterase and BACE1

Md Yousof Ali^{1,†}, Su Hui Seong^{1,†}, Machireddy Rajeshkumar Reddy², Sung Yong Seo², Jae Sue Choi^{1,*}, Hyun Ah Jung^{3,*}

¹Department of Food and Life Science, Pukyong National University, Busan 48513, Republic of Korea; yousufbge@gmail.com (M.Y.A.); seongsuhui@naver.com (S.H.S.)

²Department of Chemistry, Pukyong National University, Busan 48513, Republic of Korea; rajeshr.chem@gmail.com (M.R.R.); syseo@pknu.ac.kr (S.Y.S.)

³Department of Food Science and Human Nutrition, Chonbuk National University, Jeonju 54896, Republic of Korea

[†] These two authors contributed equally to this work

* Correspondence: choijs@pknu.ac.kr (J.S.C.); jungaha@jbnu.ac.kr (H.A.J.);

Tel.: +82-51-629-5845 (J.S.C.); Tel.: +82-63-270-4882 (H.A.J.)

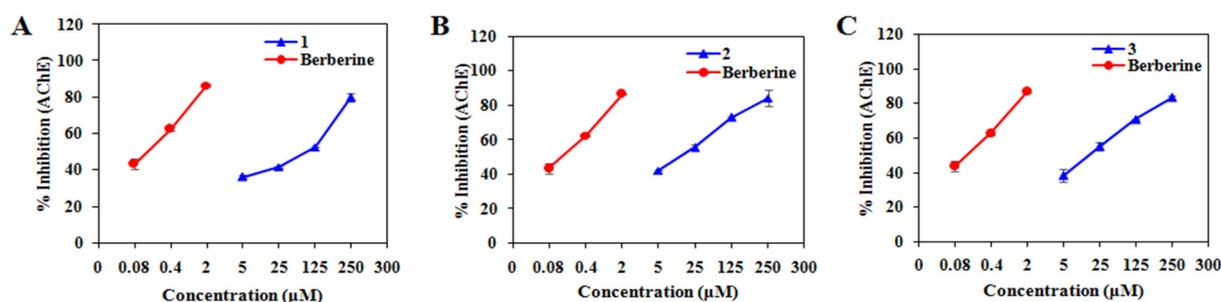


Figure S1. Electric-eel AChE inhibitory activity of 1 (A), 2 (B), and 3 (C). AChE inhibitory activity of 1-3 were evaluated in the concentration range of 5-250 μM. Berberine was used as a positive control. All values are expressed as mean ± SEM of triplicate experiments.

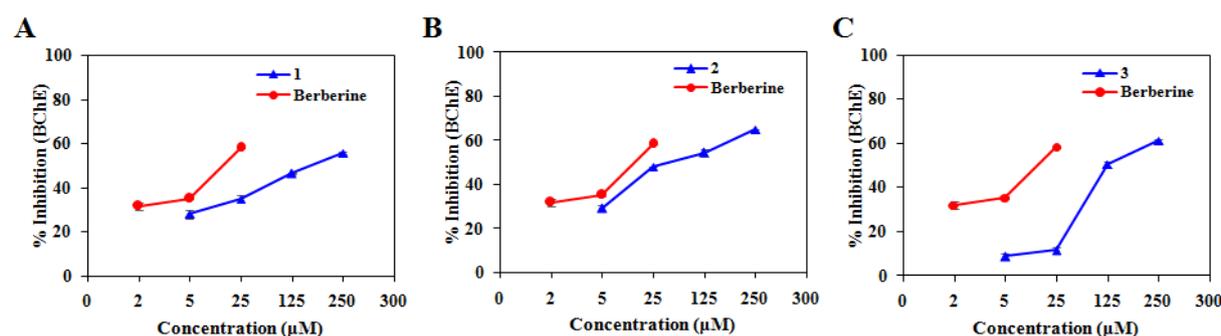


Figure S2. Horse-serum BChE inhibitory activity of 1 (A), 2(B), and 3 (C). BChE inhibitory activity of 1-3 were evaluated in the concentration range of 5-250 μM. Berberine was used as a positive control. All values are expressed as mean ± SEM of triplicate experiments.

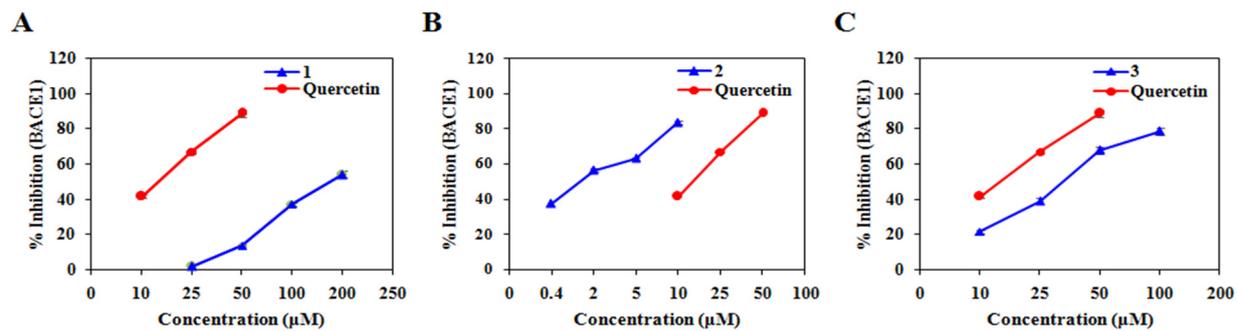


Figure S3. Human recombinant BACE1 inhibitory activity of **1** (A), **2** (B), and **3** (C). BACE1 inhibitory activity of **1-3** were evaluated in the concentration range of 0.4-200 μ M. Quercetin was used as a positive control. All values are expressed as mean \pm SEM of triplicate experiments.